

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	3966954
<b>Application Number:</b>	10619796
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	7886
<b>Title of Invention:</b>	Sparse and efficient block factorization for interaction data
<b>First Named Inventor/Applicant Name:</b>	Francis X. Canning
<b>Customer Number:</b>	20995
<b>Filer:</b>	Lee W. Henderson/Valerie Jones
<b>Filer Authorized By:</b>	Lee W. Henderson
<b>Attorney Docket Number:</b>	CANNING.001CP2
<b>Receipt Date:</b>	18-SEP-2008
<b>Filing Date:</b>	15-JUL-2003
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<b>Application Type:</b>	Utility under 35 USC 111(a)

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File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE_CANNING-001CP2.pdf	66974	no	2
			3d32b9c82c60f3230e37c73b3df77b58779375d2		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2		Amendment_CANNING-001CP2.pdf	519762	yes	11
			1d9ce0522a76c311367fab560c58626f685fd71		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment Submitted/Entered with Filing of CPA/RCE		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	11	
Warnings:					
Information:					
3	Information Disclosure Statement Letter	IDS_CANNING-001CP2.pdf	111869	no	3
			90a939bd5f1bad89318f5ea3d2f3407b32f0e09c		
Warnings:					
Information:					
4	Fee Worksheet (PTO-06)	fee-info.pdf	30549	no	2
			e387525b0cb55c70a9ba288a68385ee91da82d4d		
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Total Files Size (in bytes):			729154		

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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.